

PAT-NO: JP411050224A  
DOCUMENT-IDENTIFIER: JP 11050224 A  
TITLE: HOT DIP ZN BASE COATED STEEL SHEET  
PUBN-DATE: February 23, 1999

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APPL-NO: JP10018342  
APPL-DATE: January 16, 1998

INT-CL (IPC): C23C002/06, C22C018/04

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a hot dip Zn base coated steel sheet which averts the generation of 'sag patterns' and has excellent corrosion resistance and surface appearance by subjecting the steel sheet to hot dip Zn-Al-Mg plating contg. specifically composed Al, Mg and Be and consisting of the balance Zn and inevitable impurities.

SOLUTION: The compsn. of a plating bath is composed, by weight %, 4.0 to 105 Al, 1.0 to 4.0% Mg, 0.001 to 0.05% Be and the balance Zn and inevitable impurities. The Al component has an effect improving the corrosion resistance of the plated steel sheet and suppressing the generation of the dross of the plating bath. The Mg component has an effect of greatly enhancing the corrosion resistance of the plated steel sheet by forming a uniform corrosion product on the surface of the plating layer. The Be suppresses the generation of the 'sag patterns'. This effect appears from about 0.001 wt.% in Be

content. The effect is higher as the content is larger but the effect is satd.  
at about 0.05 wt.%. An adverse influence begins to appear in the corrosion resistance of the plating layer when the content is further increased.

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